



STB Systems, Incorporated

**Expansion
Products
for Personal
Computing**

Expanding the capabilities of your personal computer is one thing. Affordability is another. When you find these benefits combined in a single product, you can bet it's made by STB.

STB Systems, Inc. is a high-technology designer and manufacturer of peripheral hardware and software expansion products for the IBM PC™, APPLE II™ and their compatibles. The STB product line includes memory, video, input/output and combination boards along with the enhancement software.

STB's philosophy of providing more value for less money begins with creative design technology. The result: you get more of the most popular functions on a single board.

With STB, you're not just buying a product, but a company behind that product.

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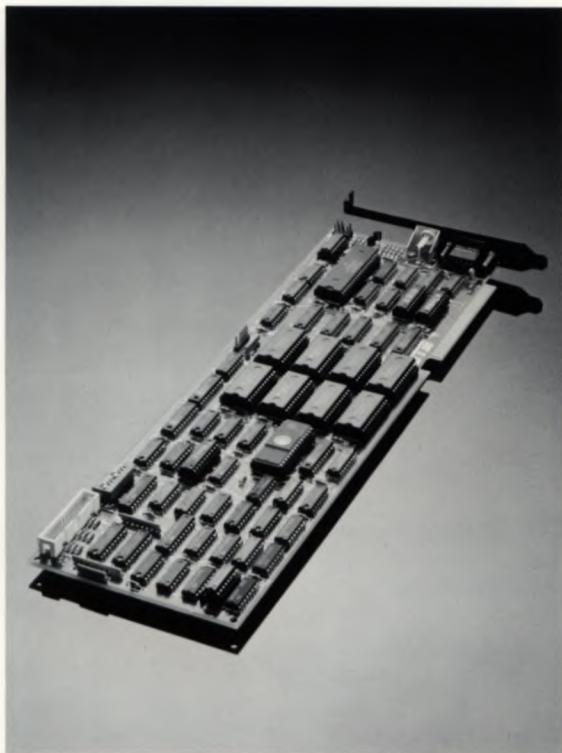
GRAPHIX PLUS™

STB-CLR

STB's Graphix Plus multi-function video board combines four popular capabilities: color text and graphics, monochrome text and graphics, IBM compatible parallel printer port and a light pen interface.

Graphix Plus drives RGB color monitors or a composite B&W monitor with the same colors, resolution and modes as IBM's Color/Graphics Monitor Adapter. With 50% faster scrolling, Graphix Plus improves on the IBM adapter by eliminating flashing and flickering.

Also included is PC Accelerator™, our super RAM disk emulator and print spooler software.



Features

Color/Graphics

- Hardware compatible with the IBM Color Graphics Adapter.
- RGB color monitor interface.
- B&W composite video output with true gray scale weighting.
- Text mode is 50% faster than the IBM Color Graphics Adapter.
- Flicker-free scrolling.
- Light pen interface.

Monochrome Display

- Compatible with the IBM Monochrome Display.
- Switch selects color/monochrome modes.
- High quality monochrome alphanumeric character set.
- High resolution bit mapped graphics on the monochrome display (640x200 and 320x200).
- Software compatible with Lotus 1-2-3™ (spreadsheet & graphics).
- Four text pages.

Parallel Printer

- Software totally compatible with the IBM Parallel Printer Adapter.
- Parallel port is switch selectable as LPT1 or LPT2.
- True bi-directional, eight-bit input/output port.
- Designed to interface with IBM compatible printer or a SASI compatible hard disk controller.

Clock/Calendar Option

- Battery-backed clock/calendar remembers the date and time while the computer is off.
- Clock program sets the computer time and date while the computer is on, and allows setting the clock at any time.

PC Accelerator

(See full description on page 12.)

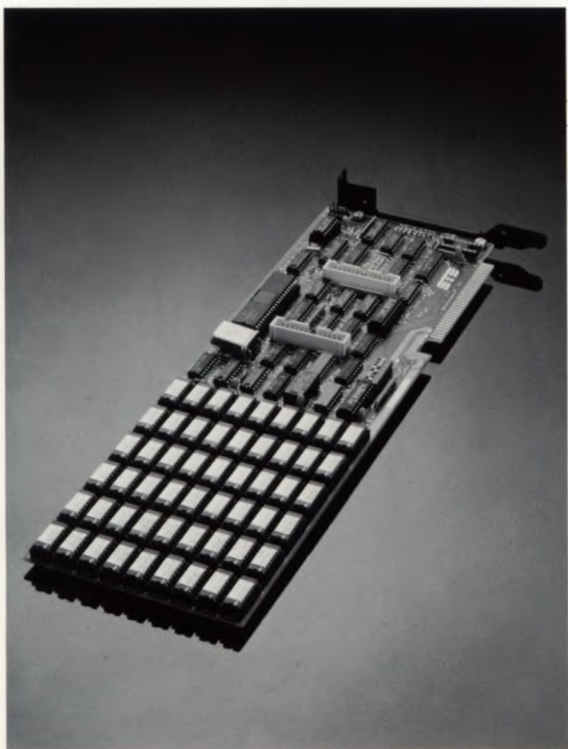
RIO PLUS™

STB-RIO+

STB's "more for less" principle is well illustrated in the Rio Plus. This best-selling board expands your PC with four functions and up to 384K additional memory — and uses only one slot.

Rio Plus includes an asynchronous RS-232-C serial communications port for interfacing modems, serial printers, plotters, mice and many other peripherals. The board also includes a parallel I/O port for interfacing printers and hard disk controllers; battery-operated clock/calendar and a game paddle port for both IBM and APPLE joysticks. When used in a 256K computer, Rio Plus can give you up to 640K memory.

STB's PC Accelerator, which combines printer buffering and high speed disk emulation in one program, is also included.



Features

Memory

- 384K of user-expandable memory in one slot.
- Available in 64K, 256K, and 384K installed.
- Expands the new 256K PC's and XT's to 640K.
- User upgradable. Just plug in memory chips — no soldering required.
- All memory is fully parity checked for data errors.

Parallel Port

- True bi-directional, eight-bit input/output port.
- Designed to interface to an IBM compatible parallel printer or SASI compatible hard disk controller.
- Compatible with the IBM Parallel Printer Adapter.

Asynchronous RS-232-C Port

- Compatible with the IBM Asynchronous Communication Adapter.
- Designed to interface with modems, serial printer or mice.

Clock

- Clock/calendar keeps track of time and date while the computer is turned off.
- Clock program sets computer time and date when the computer is turned on, and allows setting the clock/calendar at any time.

Game Port

- Software compatible with the IBM Game Control Adapter.
- Plug compatible with APPLE joysticks, paddles and expansion ports.
- Compatible with IBM joysticks through an optional interface cable.

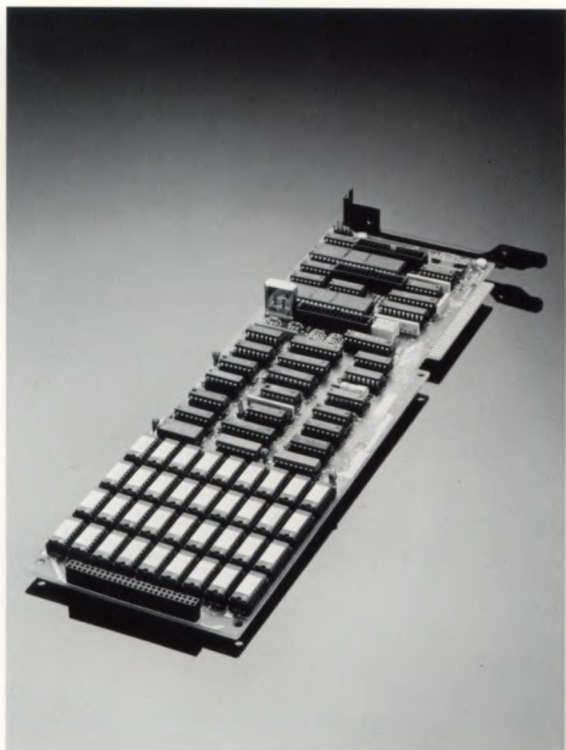
PC Accelerator

(See full description on page 12.)

SUPER RIO™

STB-SRIO

By utilizing all the memory expansions and options for the STB Super Rio, you can have up to 768K *additional* memory — and then there is the array of functions. The Super Rio has two asynchronous RS-232-C serial communications ports, a parallel I/O port, battery-operated clock/calendar and game paddle port. Included free is our PC Accelerator which combines printer buffering and high speed disk emulation in one program. All this, including the Piggyback memory expansion board option (up to 512K additional memory) fits into just one slot in your IBM PC.



Features

Memory

- Expands your computer's memory to 320K using only one expansion slot.
- Available with 64K, 128K, 192K, 256K installed.
- User upgradable to 256K. Expansion kits are available. Just plug in the memory chips — no soldering required.
- All memory is fully parity checked for data errors.

Memory Expansion Option

- An additional 512K of expansion memory is available with the STB Piggyback board.
- Available with 64K through 512K in 64K increments (total of 768K).
- User upgradable.
- Piggyback board plugs into the Super Rio board. Combination occupies only one expansion slot.

Parallel I/O Port

- True bi-directional, eight-bit input/output port, SASI compatible.
- Designed to interface to an IBM compatible parallel printer or SASI compatible hard disk controller.
- Totally software compatible with the IBM Parallel Printer Adapter.

Dual Asynchronous RS-232-C Ports

- Two asynchronous communications ports.
- Totally software compatible with two IBM Asynchronous Communication Adapters.
- Modem and serial printer cables available.

Clock

- Clock/calendar keeps track of time and date while computer is turned off.
- Clock program sets computer time and date when the computer is turned on and allows setting the clock/calendar at any time.

Game Port

- Software compatible with the IBM Game Control Adapter.
- Plug compatible with APPLE joysticks, paddles and expansion ports.
- Compatible with IBM joysticks through optional interface cable.

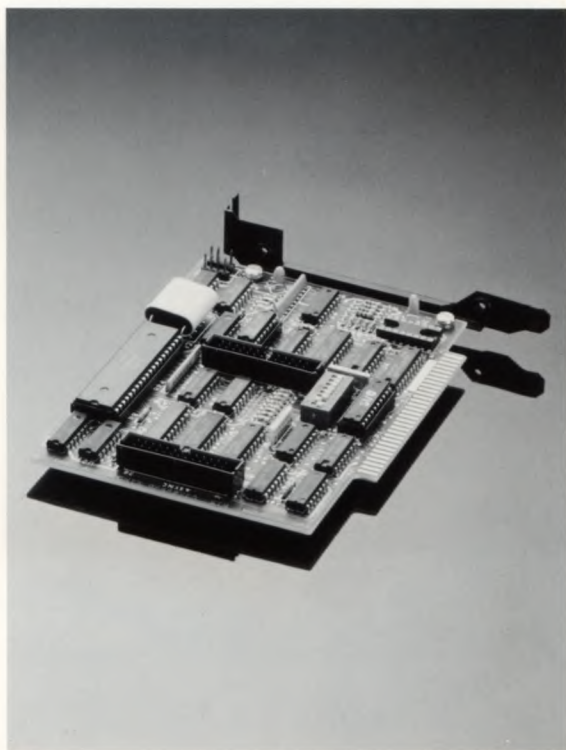
PC Accelerator

(See full description on page 12.)

SUPER I/O™

STB-SI/O

STB's Super I/O is designed to give you a number of vital functions on a board compact enough to fit in the short slot of the IBM XT. Super I/O offers an asynchronous RS-232-C serial communications port, parallel I/O port, battery-operated clock/calendar and game port. Our PC Accelerator is also included.



Features

Size

- Four-function I/O board that fits in a short slot in an XT.

Parallel Port

- True bi-directional, eight-bit input/output port.
- Designed to interface to an IBM compatible parallel printer or SASI compatible hard disk controller.
- Compatible with the IBM Parallel Printer Adapter.

Asynchronous RS-232-C Port

- Compatible with the IBM Asynchronous Communication Adapter.
- Designed to interface with modems, serial printers or mice.

Clock

- Clock/calendar keeps track of time and date while the computer is off.
- Clock program sets computer time and date when the computer is turned on, and allows setting the clock/calendar at any time.

Game Port

- Software compatible with the IBM Game Control Adapter.
- Plug compatible with APPLE joysticks, paddles and expansion ports.
- Compatible with IBM joysticks through an optional interface cable.

PC Accelerator

(See full description on page 12.)

PRINTER PLUS™

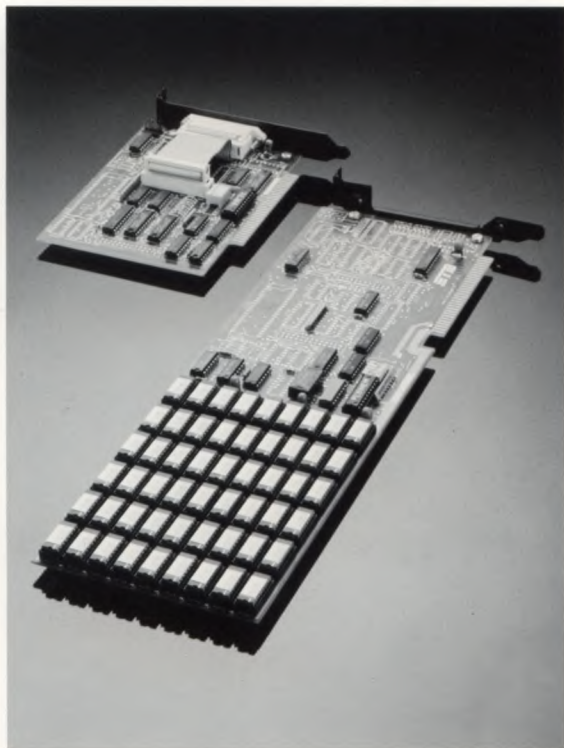
STB-PTR

When you need only to interface to an IBM printer or SASI hard disk controller, you have these capabilities in our Printer Plus parallel port expansion. A battery-operated clock/calendar is optional.

MEMORY EXPANSION BOARDS

STB-I-64, STB-I-256, STB-I-384

If additional memory is your requirement, you can add up to the full 640K memory capacity using STB's Memory Expansion Boards. One board — one slot and each board is expandable to 384K in increments of 64K.



Printer Plus Features

Parallel Port

- True bi-directional, eight-bit input/output port.
- Designed to interface to an IBM printer or SASI hard disk controller.
- Totally software compatible with the IBM Parallel Printer Adapter.

Upgradable Clock/Calendar Option

- A battery-operated, time-of-day clock can be added at any time. Just plug in one chip — no soldering required.
- Clock/calendar keeps track of time and date while the computer is turned off.
- Clock program sets computer time and date when the computer is turned on and allows setting the clock/calendar at any time.

Memory Expansion Boards Features

- Expand the IBM Personal Computer's memory to 640K using only one expansion slot.
- Available in three memory sizes: 64K, 256K, or 384K all on one board.
- User expandable in 64K increments to a maximum of 384K.
- Versatile — additional STB Memory Boards may be installed to fill the full 640K of user memory space.
- Easy to install — the STB-I-64/384 Memory Board can be used in any of the five I/O expansion slots. Mounting bracket included for secure, reliable installation.
- Reliable — Our customized memory controller circuit reduces parts count and power consumption, assuring cool, reliable operation.
- Parity — the STB-I-64/384 Memory Board is parity checked for data errors. If a parity error is detected, the I/O channel check line is activated, indicating the error to the processor.

PC Accelerator

(See full description on page 12.)

PC ACCELERATOR™

STB-PCA

STB's PC Accelerator combines printer buffering and high speed disk emulation into one easy-to-use program. This feature is included free on our Graphix Plus, Rio Plus, Super Rio, Memory Expansion and Super I/O boards.

Features:

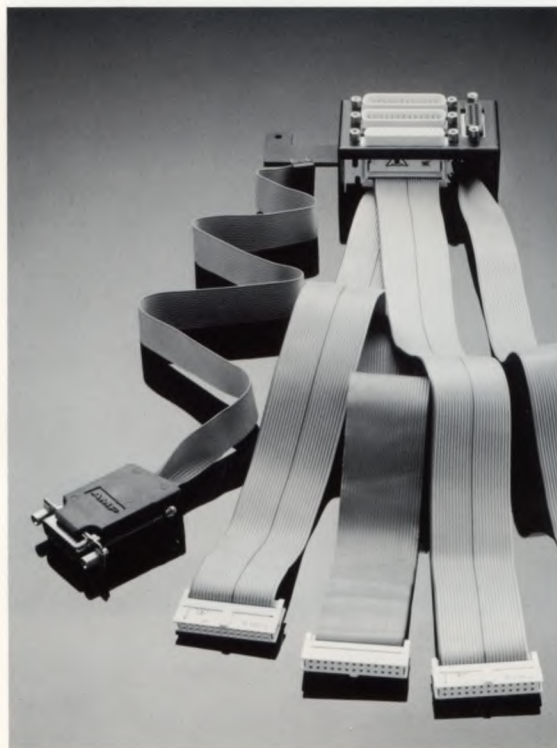
- **Two Electronic Disks.** Disk drives are simulated using a portion of the system's memory. This provides high speed, instantly accessible substitutes for disk drives. Programs and data may be accessed many times faster than on a mechanical drive.
- **Print Spooler.** Print data is captured and instantly stored in a memory area, allowing your application to continue instead of waiting. The PC Accelerator then sends this data to the printer without interference to your programs.
- **Easy Installation.** No changes to DOS and no special switch settings are required. A single command activates all of these features. An installation program copies the command to your diskette(s) and creates an automatic start-up command file. The electronic disk areas can occupy from 10-360 kilobytes.
- **Keyboard Command Feature.** The printer can be temporarily paused, print data can be cleared, and the display screen can be blanked — at any time — with a simple keyboard command sequence. The Stop List enhancement allows a single key to instantly pause, resume, or cause a slow motion display of data being listed on the display monitor.
- **Quick Start Option.** The System Board memory switches can be set to indicate a small amount of memory, such as 64 kilobytes, resulting in a quick power-on start of the machine. The PC Accelerator will search for and automatically reconfigure the system for any additional memory that is found.
- **Compatibility.** The PC Accelerator has been designed to operate invisibly to the application program. It is fully compatible with products such as Basic™ and Basic Compiler™, Easywriter Version 1.1™, WordStar™, Lotus 1-2-3™, VisiCalc™, Multiplan™, Macro Assembler™, COBOL Compiler™, and many more.

The PC Accelerator requires an IBM Personal Computer, a minimum of 64 kilobytes of memory, either a 40 or 80 column display device, and DOS Version 1.1 or 2.0. The print spooling feature requires a printer attached to a parallel adapter. Additional memory up to a total of 896 kilobytes is also supported.

IBM™ CABLES AND BRACKETS

STB offers a wide variety of cables for different uses. Each multi-function board comes with two 20" interface cables including mounting bracket.

- **20" 25-pin D-shell female cable.** (STB-CA-CP) Interface cable between printer connector and standard IBM printer cable.
- **20" 25-pin D-shell male cable.** (STB-CA-CS) Interface cable between STB multi-function board serial connectors and standard IBM serial cable.
- **6' Standard IBM Equivalent Parallel Printer cable.** (STB-CA-PPC) 25-pin D-shell male cable to 36-pin champ female cable.
- **10' Board to Serial male cable.** (STB-CA-BSM) Straight through from STB multi-function board to 25-pin D-shell male cable. (Modems, etc.)
- **10' Board to Serial female cable.** (STB-CA-BSF) Straight through from STB multi-function board to 25-pin D-shell female. (Modems, etc.)
- **18" IBM compatible game port adapter cable.** (STB-CA-GA) Interface between APPLE game socket on STB multi-function boards and IBM compatible joysticks.



APPLE™ PRODUCTS

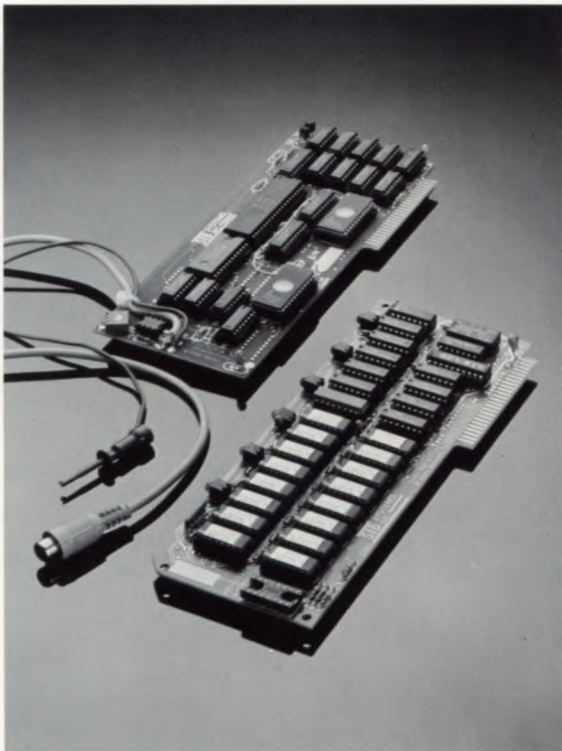
Compatible Video Card STB-80

The STB-80 is a single-slot 80-column video card with a number of popular text and graphics function capabilities for your APPLE II.

Memory Expansion

Boards STB-64 and STB-128

You can increase the memory and flexibility of your APPLE II with the STB-64 and STB-128 Memory Expansion Boards.



Features

Compatible Video Card

- 24 lines of characters.
- Upper and lower case characters with descenders.
- Direct keyboard entry of lower case and "special" characters.
- Line graphics.
- Software controllable screen switch to standard APPLE display.
- Emulates all BASIC screen formatting commands.
- Scrolling windows supported.
- Compatible with PASCAL and CP/M.
- Software controllable inverse video (by character and screen).
- Character set in EPROM allows user modification.
- Light pens and "three terminal" video monitors.
- Video level control for inexpensive video monitors.
- 60 and 50 Hertz operation allows worldwide use.
- Software programmable cursor shape and blink rate.
- Stop-list and flush-list.
- Screen readback capability.
- Extensive provisions for special application software.
- Low power consumption, small size, fully socketed.

Memory Expansion Boards

- 64K or 128K of expansion memory on one board, in one slot.
- DOS 3.3 support disk included. Disk emulation software for simulating high speed disk drives. DOS relocater to move DOS into the memory board. Gives DOS 8K more memory for those really big programs. Fast BASIC Loader. Load Hi-Res pictures into the memory board. Board test program. High speed "Disk Cache" program speeds access to commonly used data.
- "No-hassle" installation — no cables to install or chips to remove.
- Expandable — use more than one board to simulate additional high speed disk drives.
- Compatible with all 16K memory board software.
- Processor port for direct address of the memory space by future STB processor boards.
- Digitally derived timing ... No "pots" or other adjustable components used.
- Six LED's show the current operating state of the board.

Warranty

All STB expansion products for personal computing are fully tested for defects in materials and performance before shipping. Each product is warranted for a period of one year from the date of delivery. We will repair or replace any board that proves defective during the warranty period.

Customer Service

STB is proud of the trouble-free operation and performance that characterize our fine products. We believe this factor is in large part responsible for the growing popularity of the STB product line.

Should your STB product require servicing of any type, you'll be glad to learn that we provide direct factory support to your needs. Most repairs and modifications are accomplished within 24 hours of receiving the item. And if we can't repair it in five working days, we'll send you a replacement!

For information on products, dealers, service, please write or call:



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STB Price List

Effective November 1, 1983

RIO PLUS™

Multi-function board with RS232 serial port, parallel I/O port, game port and clock/calendar. Comes with 64K memory and PC Accelerator.

STB-RIO + 64 **\$395.00**

Same as above, but with 256K memory.

STB-RIO + 256 **665.00**

Same as above, but with 384K memory.

STB-RIO + 384 **845.00**

GRAPHIX PLUS™

Color graphics board featuring composite monochrome, RGB color, a parallel port, a light pen interface, and an upgradable clock option.

STB-CLR **495.00**

SUPER RIO™

RAM-IO multi-function board with 64K memory (upgradable to 768K), two serial ports, parallel printer port (IBM™ compatible), game port and clock/calendar.

STB-SRIO-64 **419.00**

Same as above, but with 192K memory.

STB-SRIO-192 **599.00**

Same as above, but with 256K memory.

STB-SRIO-256 **689.00**

64K (Expandable to 512K) Piggyback memory.

STB-PB-64 **249.00**

256K Piggyback memory

STB-PB-256 **519.00**

512K Piggyback memory

STB-PB-512 **879.00**

SUPER I/O™

Four function I/O board that will fit a short slot in an XT. Features RS232 serial port, parallel port, game port and clock/calendar.

STB-SI/O **229.00**

PC ACCELERATOR™

Combination disk emulator and spooler software.

STB-PCA **79.95**

PRINTER PLUS

Standard printer board with upgradable clock option.

STB-PTR **135.00**

SERIAL PLUS

Standard IBM compatible serial board.

STB-SER **145.00**

MONO PLUS

IBM compatible monochrome board with parallel port and upgradable clock option.

STB-MONO **330.00**

MEMORY EXPANSION BOARDS

64K Memory Board (expandable to 384K).

STB-I-64 **\$295.00**

Same as above, but with 256K memory.

STB-I-256 **565.00**

Same as above, but with 384K memory.

STB-I-384 **745.00**

MEMORY EXPANSION KIT

64K memory.

STB-XK **129.00**

RAMPRINT

Spooler software.

STB-RPT **49.95**

IBM™ CABLES

20" 25-pin D-shell female cable.

STB-CA-CP **29.95**

20" 25-pin D-shell male cable.

STB-CA-CS **29.95**

6' Standard IBM Equivalent Parallel Printer cable.

STB-CA-PPC **49.95**

10' Board to Serial male cable.

STB-CA-BSM **39.95**

10' Board to Serial female cable.

STB-CA-BSF **39.95**

18" IBM compatible game port adaptor cable.

STB-CA-GA **29.95**

APPLE™ PRODUCTS

80 x 24 Video Board.

STB-80 **249.00**

64K Memory Board (expandable to 128K)
includes DOS 3.3 Support Program.

STB-64 **249.00**

128K Memory Board (Includes Disk Simulator &
DOS 3.3 Support Program).

STB-128 **399.00**

Prices, specifications and availability subject to change without notice.



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